

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listing of claims in the present application:

LISTING OF CLAIMS:

1-14. Cancelled.

15. (Currently amended) An intradermal delivery device for use in making intradermal injections, comprising:

a drug container having a reservoir adapted to contain a selected substance and an outlet port that allows the substance to exit the reservoir during an injection, wherein said drug container comprises a syringe having a generally flat body portion that at least partially surrounds the reservoir, the body portion and the reservoir being made from two sheets of thermoplastic material such that side walls of the reservoir are selectively deflectable toward each other to expel a substance from the reservoir during an injection.;

a needle in fluid communication with the outlet port, the needle having a forward end that is adapted to penetrate the skin of an animal; and

a limiter that surrounds the needle and has a skin engaging surface that is adapted to be placed against the skin of the animal to receive an intradermal injection, the needle forward end extending away from the skin engaging surface a selected distance such that the limiter limits an amount that the needle forward end penetrates the skin, wherein said limiter is non-movable and limits penetration of the needle into the dermis layer of skin of the animal so that the substance is injected into the dermis layer of the animal.

16-18. Canceled.

19. (Previously presented) The device of claim 15, including a hub that supports the needle and is selectively secured to the syringe near the outlet port and a receiver adjacent the outlet port that is generally circular and the hub is completely received within the receiver and wherein the limiter is integrally formed with the receiver such that the limiter is permanently supported by the body portion adjacent the outlet port.

20. (Previously presented) The device of claim 19, wherein the skin engaging surface surrounds the needle, and has a thickness defined between an inner diameter and an outer diameter and wherein the inner diameter is at least five times greater than an outside diameter of the needle.

21. (Previously presented) The device of claim 20, wherein the skin engaging surface is generally circular.

22. (Previously presented) The device of claim 19, wherein the needle forward end extends away from the hub in a first direction and a needle back end extends away from the hub in a second direction, and including a sealing membrane that closes off the outlet port and wherein the needle back end pierces the sealing membrane when the hub is received by the receiver.

23. (Previously presented) The device of claim 15, including a hub that supports the needle and is selectively secured to the syringe near the outlet port and a receiver adjacent the outlet port that is generally circular and the hub is completely received within the receiver and wherein the limiter is formed separately from the receiver and is at least partially received by the receiver.

24. (Previously presented) The device of claim 23, wherein the limiter and the hub are integrally formed into a single piece structure.

25. (Previously presented) The device of claim 15, wherein the needle has a length and wherein the selected distance is much less than the needle length.

26. (Previously presented) The device of claim 25, wherein the selected distance is fixed and is in the range from approximately .5 mm to approximately 3 mm.

27. (Previously presented) The device of claim 15, wherein the skin engaging surface is generally flat and extends through a plane that is generally perpendicular to an axis of the needle.

28. (Previously presented) The device of claim 15, wherein the skin engaging surface includes a central opening that is slightly larger than an outside dimension of the needle and the skin engaging surface is continuous.

29. (Previously presented) The device of claim 15, wherein the skin engaging surface includes a contact surface area that is large enough to stabilize the assembly in a desired orientation relative to the skin.

30. (Previously presented) The device of claim 15, wherein the desired orientation is generally perpendicular to the skin.

31. (Previously presented) The device of claim 15, wherein the drug container is prefilled with a substance.

32. (Currently amended) A method of intradermally injecting at least one substance such as a drug, vaccine or the like into the skin, comprising the steps of:

pressing a needle perpendicularly to the skin ~~of the animal to receive an injection~~, said needle in fluid communication with an outlet port of a drug container having a reservoir adapted to contain a selected substance and the outlet port providing an exit path for ~~allows~~ the substance ~~to exit from~~ the reservoir during an intradermal injection;

injecting the substance into the skin ~~of the animal~~ with the depth of penetration of the needle being limited to the intradermal space of the skin by a non-movable limiter that surrounds the needle and has a skin engaging surface that is adapted to be placed against the skin ~~of the animal~~ and a forward end of the needle extending away from the skin engaging surface a selected distance such that the limiter limits ~~an amount that~~ penetration of the needle forward end to the dermis layer of penetrates the skin so that the substance is injected into the dermis layer of the skin of the animal, said step of injecting the substance comprising deflecting at least two sheets of thermoplastic material forming a generally flat body portion that at least partially surrounds the reservoir toward each other to expel the substance from the reservoir during an injection.

33. (Previously presented) The method of claim 32, wherein the step of pressing the needle perpendicularly to the skin of the animal includes orienting the needle perpendicularly to the skin.

34-35. Canceled.

36. (Previously presented) The method of claim 32, further comprising the step of filling the drug container with the substance to be intradermally injected.

37. (Previously presented) The method of claim 32, wherein said drug container is a syringe and said animal is human.